

PAGE 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/738,944DATE: 09/21/97
TIME: 10:15:05

INPUT SET: S20427.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

1 SEQUENCE LISTING
2
3 (1) General Information
4
5 (i) APPLICANT: Peterson, et al.
6
7 (ii) TITLE OF THE INVENTION: METHODS FOR GENERATING AND
8 SCREENING NOVEL METABOLIC PATHWAYS
9
10 (iii) NUMBER OF SEQUENCES: 51
11
12 (iv) CORRESPONDENCE ADDRESS:
13 (A) ADDRESSEE: Pennie & Edmonds
14 (B) STREET: 1155 Avenue of the Americas
15 (C) CITY: New York
16 (D) STATE: NY
17 (E) COUNTRY: USA
18 (F) ZIP: 10036/2711
19
20 (v) COMPUTER READABLE FORM:
21 (A) MEDIUM TYPE: Diskette
22 (B) COMPUTER: IBM Compatible
23 (C) OPERATING SYSTEM: DOS
24 (D) SOFTWARE: FastSEQ Version 2.0
25
26 (vi) CURRENT APPLICATION DATA:
27 (A) APPLICATION NUMBER: 08/738,944
28 (B) FILING DATE: 24-OCT-1996
29 (C) CLASSIFICATION:
30
31 (vii) PRIOR APPLICATION DATA:
32 (A) APPLICATION NUMBER: USSN 08/639,255
33 (B) FILING DATE: 24-APR-1996
34
35
36
37 (viii) ATTORNEY/AGENT INFORMATION:
38 (A) NAME: Coruzzi, Laura A
39 (B) REGISTRATION NUMBER: 30,742
40 (C) REFERENCE/DOCKET NUMBER: 8757-007
41
42 (ix) TELECOMMUNICATION INFORMATION:
43 (A) TELEPHONE: 212-790-9090
44 (B) TELEFAX: 212-869-8864
45 (C) TELEX: 66141 PENNIE
46

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/738,944DATE: 09/21/97
TIME: 10:15:10

INPUT SET: S20427.raw

47
48 (2) INFORMATION FOR SEQ ID NO:1:
49
50 (i) SEQUENCE CHARACTERISTICS:
51 (A) LENGTH: 23 base pairs
52 (B) TYPE: nucleic acid
53 (C) STRANDEDNESS: single
54 (D) TOPOLOGY: linear
55
56 (ii) MOLECULE TYPE: DNA
57 (ix) FEATURE:
58
59 (A) NAME/KEY: Oligonucleotide "Bead-link-5"
60 (B) LOCATION: 1...23
61 (D) OTHER INFORMATION:
62
63 (A) NAME/KEY: Other
64 (B) LOCATION: 1
65 (D) OTHER INFORMATION: Biotin at nucleotide 1
66
67
68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
69

70 GCCGACCATT TAAATCGGTT AAT

23

71
72 (2) INFORMATION FOR SEQ ID NO:2:
73
74 (i) SEQUENCE CHARACTERISTICS:
75 (A) LENGTH: 21 base pairs
76 (B) TYPE: nucleic acid
77 (C) STRANDEDNESS: single
78 (D) TOPOLOGY: linear
79
80 (ii) MOLECULE TYPE: DNA
81 (ix) FEATURE:
82
83 (A) NAME/KEY: Oligonucleotide "Bead-link-3"
84 (B) LOCATION: 1...21
85 (D) OTHER INFORMATION:
86
87 (A) NAME/KEY: Other
88 (B) LOCATION: 1
89 (D) OTHER INFORMATION: Phosphate at nucleotide 1
90
91 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
92

93 TAACCGATTT AAATGGTCGG C

21

94
95 (2) INFORMATION FOR SEQ ID NO:3:
96
97 (i) SEQUENCE CHARACTERISTICS:
98 (A) LENGTH: 44 base pairs
99 (B) TYPE: nucleic acid

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/738,944DATE: 09/21/97
TIME: 10:15:15

INPUT SET: S20427.raw

100 (C) STRANDEDNESS: single
101 (D) TOPOLOGY: linear
102
103 (ii) MOLECULE TYPE: DNA
104 (ix) FEATURE:
105
106 (A) NAME/KEY: Annealed beadlink oligonucleotide
107 (B) LOCATION: 1...44
108 (D) OTHER INFORMATION:
109
110 (A) NAME/KEY: Other
111 (B) LOCATION: 8...15, 31...38
112 (D) OTHER INFORMATION: SwaI restriction
113 endonuclease sites
114
115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
116
117 118 GCCGACCATT TAAATCGGTT AATCGGCTGG TAAATTTAGC CAAT 44
119
120 (2) INFORMATION FOR SEQ ID NO:4:
121
122 (i) SEQUENCE CHARACTERISTICS:
123 (A) LENGTH: 12 base pairs
124 (B) TYPE: nucleic acid
125 (C) STRANDEDNESS: single
126 (D) TOPOLOGY: linear
127
128 (ii) MOLECULE TYPE: DNA
129 (ix) FEATURE:
130
131 (A) NAME/KEY: BstXI site
132 (B) LOCATION: 1...12
133 (D) OTHER INFORMATION:
134
135
136 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
137
138 138 CCACCTAACT GG 12
139
140 (2) INFORMATION FOR SEQ ID NO:5:
141
142 (i) SEQUENCE CHARACTERISTICS:
143 (A) LENGTH: 20 base pairs
144 (B) TYPE: nucleic acid
145 (C) STRANDEDNESS: single
146 (D) TOPOLOGY: linear
147
148 (ii) MOLECULE TYPE: DNA
149 (ix) FEATURE:
150
151 (A) NAME/KEY: Promoter for cDNA and gDNA inserts
152 (B) LOCATION: 1...20

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/738,944DATE: 09/21/97
TIME: 10:15:20

INPUT SET: S20427.raw

153 (D) OTHER INFORMATION:
154
155 (A) NAME/KEY: Other
156 (B) LOCATION: 10...11
157 (D) OTHER INFORMATION: Promoter site
158
159

160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
161

162 GAGTAGATCT CTCGAGCGGC

20

163 (2) INFORMATION FOR SEQ ID NO:6:
164

166 (i) SEQUENCE CHARACTERISTICS:
167 (A) LENGTH: 20 base pairs
168 (B) TYPE: nucleic acid
169 (C) STRANDEDNESS: single
170 (D) TOPOLOGY: linear
171
172 (ii) MOLECULE TYPE: DNA
173 (ix) FEATURE:
174
175 (A) NAME/KEY: Promoter for cDNA and gDNA inserts
176 (B) LOCATION: 1...20
177 (D) OTHER INFORMATION:
178
179 (A) NAME/KEY: Other
180 (B) LOCATION: 10...11
181 (D) OTHER INFORMATION: Promoter site
182
183

184 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
185

186 GCCGCTCGAG AGATCTACTC

20

187 (2) INFORMATION FOR SEQ ID NO:7:
188

190 (i) SEQUENCE CHARACTERISTICS:
191 (A) LENGTH: 6 base pairs
192 (B) TYPE: nucleic acid
193 (C) STRANDEDNESS: single
194 (D) TOPOLOGY: linear
195
196 (ii) MOLECULE TYPE: DNA
197 (ix) FEATURE:
198
199 (A) NAME/KEY: Promoter for cDNA and gDNA inserts
200 (B) LOCATION: 1...6
201 (D) OTHER INFORMATION:
202
203
204 (A) NAME/KEY: Other
205 (B) LOCATION: 5...6

PAGE 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/738,944DATE: 09/21/97
TIME: 10:15:25

INPUT SET: S20427.nw

206 (D) OTHER INFORMATION: Promoter site

207

208

209 (A) NAME/KEY: Other

210 (B) LOCATION: 1

211 (D) OTHER INFORMATION: Phosphate at nucleotide 1

212

213

214 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

215

216 GATCTC

6

217

218 (2) INFORMATION FOR SEQ ID NO:8:

219

220 (i) SEQUENCE CHARACTERISTICS:

221 (A) LENGTH: 6 base pairs

222 (B) TYPE: nucleic acid

223 (C) STRANDEDNESS: single

224 (D) TOPOLOGY: linear

225

226 (ii) MOLECULE TYPE: DNA

227 (ix) FEATURE:

228

229 (A) NAME/KEY: Promoter for cDNA and gDNA inserts

230 (B) LOCATION: 1...6

231 (D) OTHER INFORMATION:

232

233

234 (A) NAME/KEY: Other

235 (B) LOCATION: 5...6

236 (D) OTHER INFORMATION: Promoter site

237

238

239 (A) NAME/KEY: Other

240 (B) LOCATION: 1

241 (D) OTHER INFORMATION: Phosphate at nucleotide 1

242

243

244 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

245

246 TCGAGA

6

247

248 (2) INFORMATION FOR SEQ ID NO:9:

249

250 (i) SEQUENCE CHARACTERISTICS:

251 (A) LENGTH: 8 base pairs

252 (B) TYPE: nucleic acid

253 (C) STRANDEDNESS: single

254 (D) TOPOLOGY: linear

255

256 (ii) MOLECULE TYPE: DNA

257 (ix) FEATURE:

258

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

1099 (2) INFORMATION FOR SEQ ID NO:38:
1100
1101 (i) SEQUENCE CHARACTERISTICS:
1102 (A) LENGTH: 69 base pairs
1103 (B) TYPE: nucleic acid
1104 (C) STRANDEDNESS: single
1105 (D) TOPOLOGY: linear
1106
1107 (ii) MOLECULE TYPE: DNA
1108
1109 (ix) FEATURE:
1110
1111 (A) NAME/KEY: Other
1112 (B) LOCATION: 6...7, 28...29, 50...51
1113 (D) OTHER INFORMATION: Promoter site
1114
1115
1116 (A) NAME/KEY: Other
1117 (B) LOCATION: 14...15, 36...37, 58...59
1118 (D) OTHER INFORMATION: Methylated site
1119
1120
1121 (A) NAME/KEY: Other
1122 (B) LOCATION: 22...23, 44...45, 66...67
1123 (D) OTHER INFORMATION: Terminator site
1124
1125 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:
1126
1127 GGATCTCTCG ATCCGGATCG AGGGATCTCT CGATCCGGAT CGAGGGATCT CTCGATCCGG 60
1128 ATCGAGGGA 69
1129

1398 (2) INFORMATION FOR SEQ ID NO:47:
1399
1400 (i) SEQUENCE CHARACTERISTICS:
1401 (A) LENGTH: 68 base pairs
1402 (B) TYPE: nucleic acid
1403 (C) STRANDEDNESS: single
1404 (D) TOPOLOGY: linear
1405
1406 (ii) MOLECULE TYPE: DNA
1407
1408 (ix) FEATURE:
1409
1410 (A) NAME/KEY: Other
1411 (B) LOCATION: 1
1412 (D) OTHER INFORMATION: Phosphate at nucleotide 1

PAGE 7

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/738,944DATE: 09/21/97
TIME: 10:15:38

INPUT SET: S20427.raw

1413

1414

1415 (A) NAME/KEY: Other
1416 (B) LOCATION: 4...5
1417 (D) OTHER INFORMATION: pDbLET Vector

1418

1419

1420 (A) NAME/KEY: Other
1421 (B) LOCATION: 12...13, 34...35
1422 (D) OTHER INFORMATION: Terminator site

1423

1424 (A) NAME/KEY: Other
1425 (B) LOCATION: 20...21, 42...43
1426 (D) OTHER INFORMATION: Methylated inserts

1427

1428 (A) NAME/KEY: Other
1429 (B) LOCATION: 28...29, 50...51
1430 (D) OTHER INFORMATION: Promoter site

1431

1432 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

1433

1434 CTGGCTCGAT CCCTCGATCC GGATCGAGAG ATCCCTCGAT CCGGATGGAG AGATCCGGGC 60
1435 TACCTTAG 68
1436

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/738,944

DATE: 09/21/97
TIME: 10:15:40

INPUT SET: S20427.raw

Line

Error

Original Text